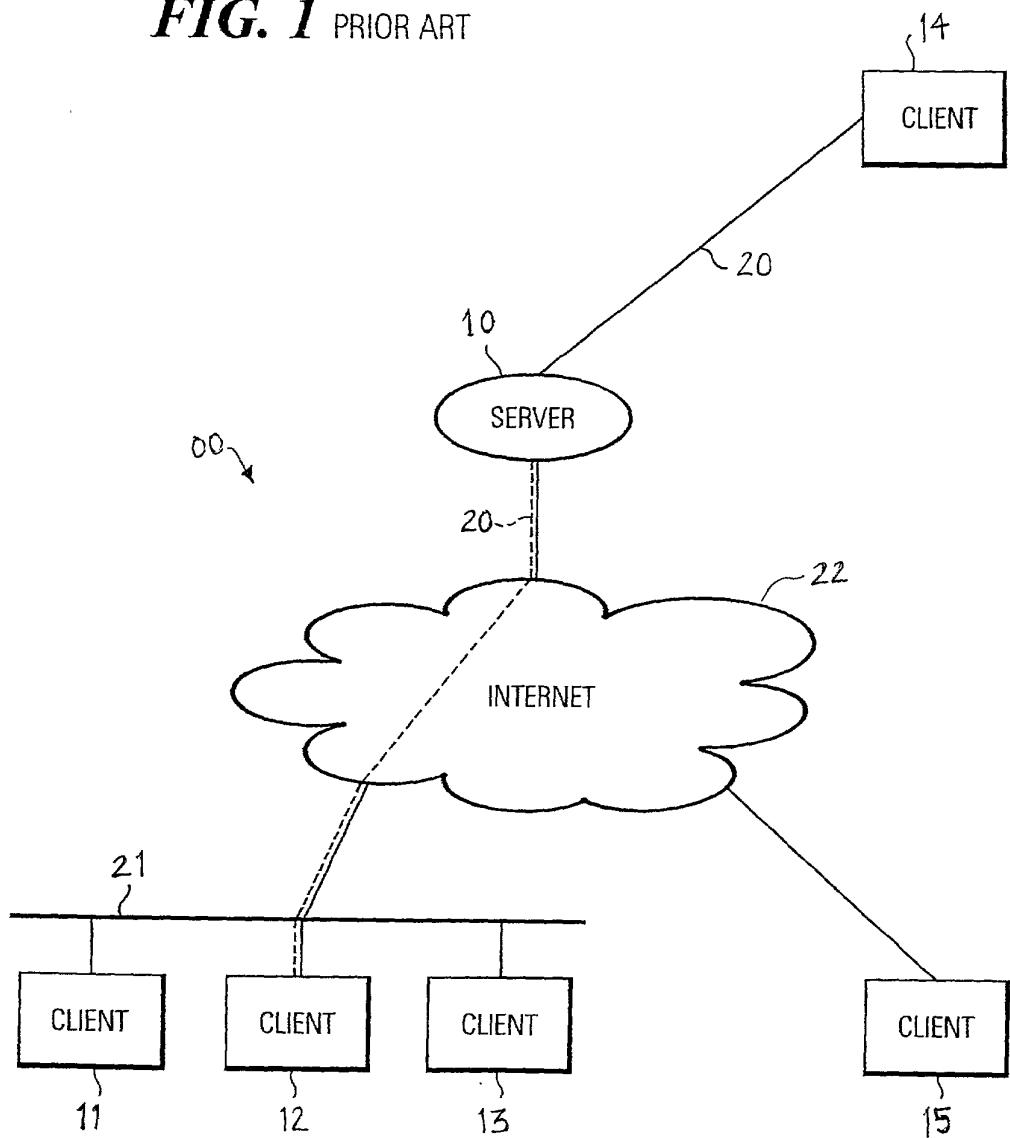


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FIG. 1 PRIOR ART



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FIG.2 PRIOR ART

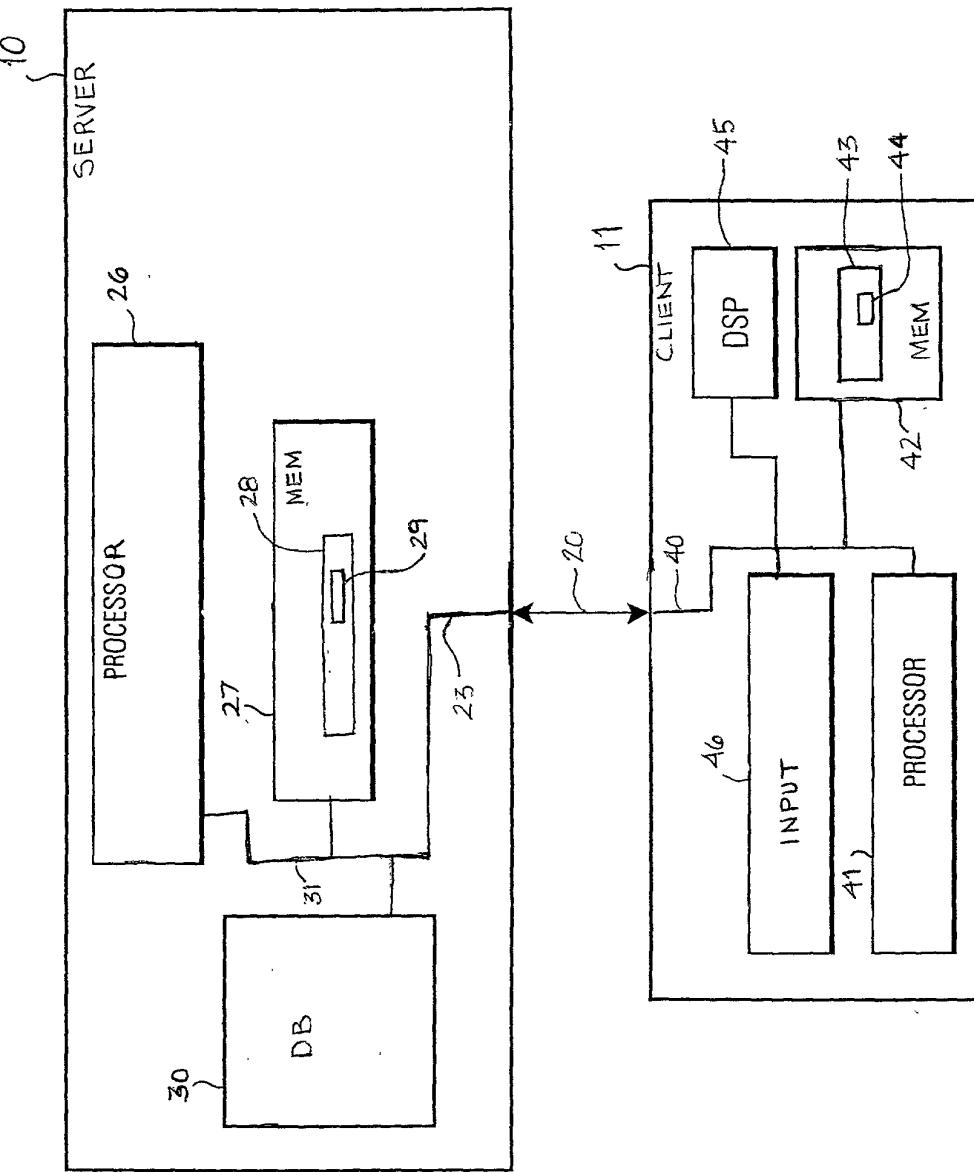
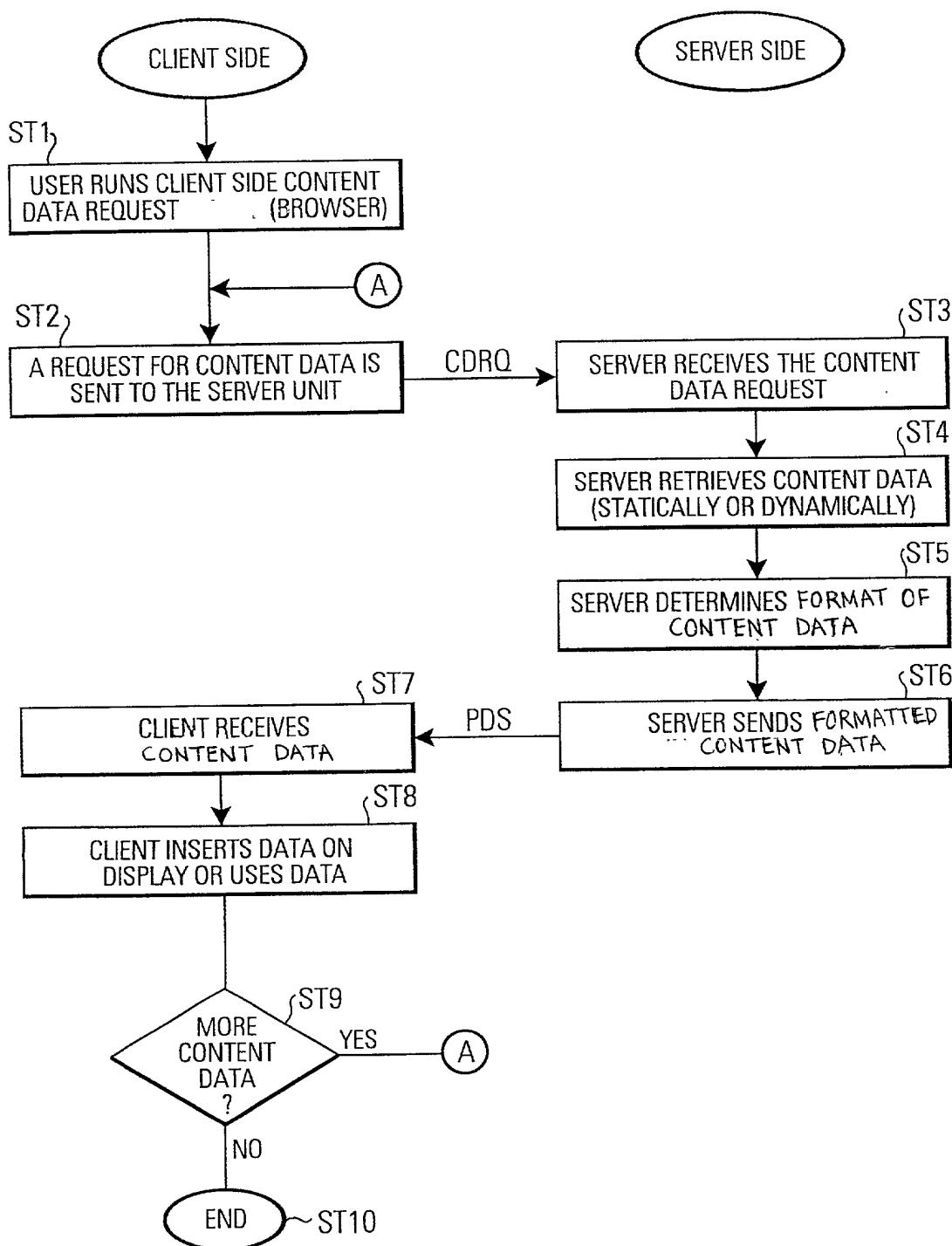
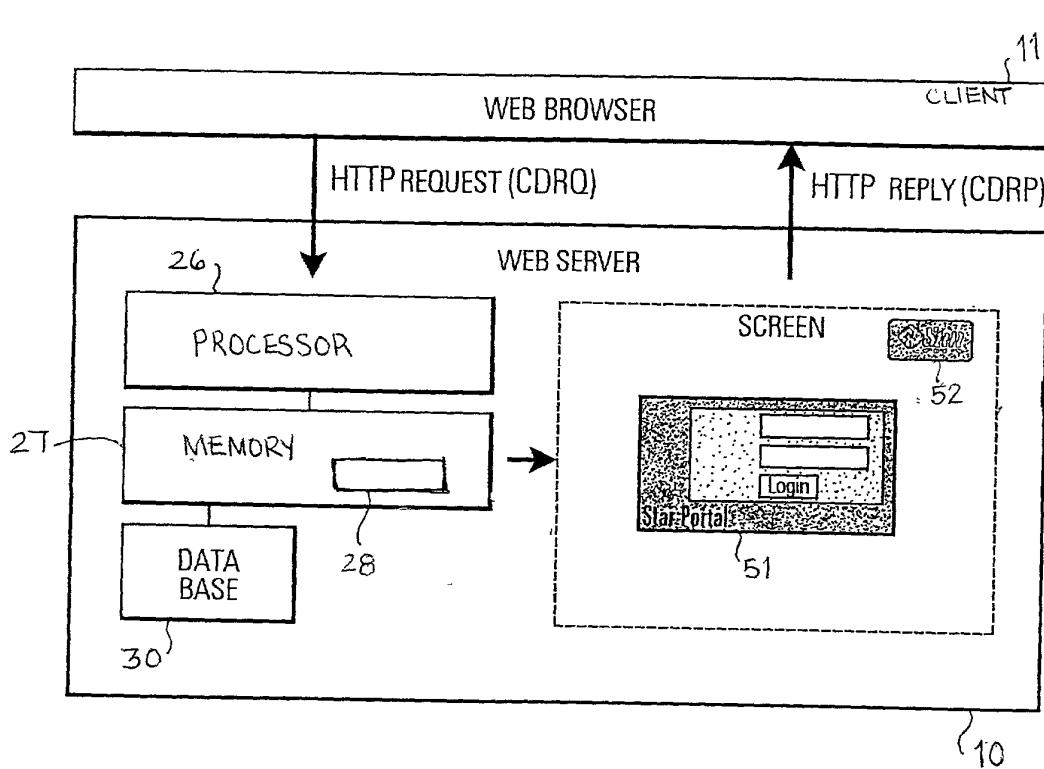


FIG.3 PRIOR ART



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FIG.4 PRIOR ART



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FIG.5a

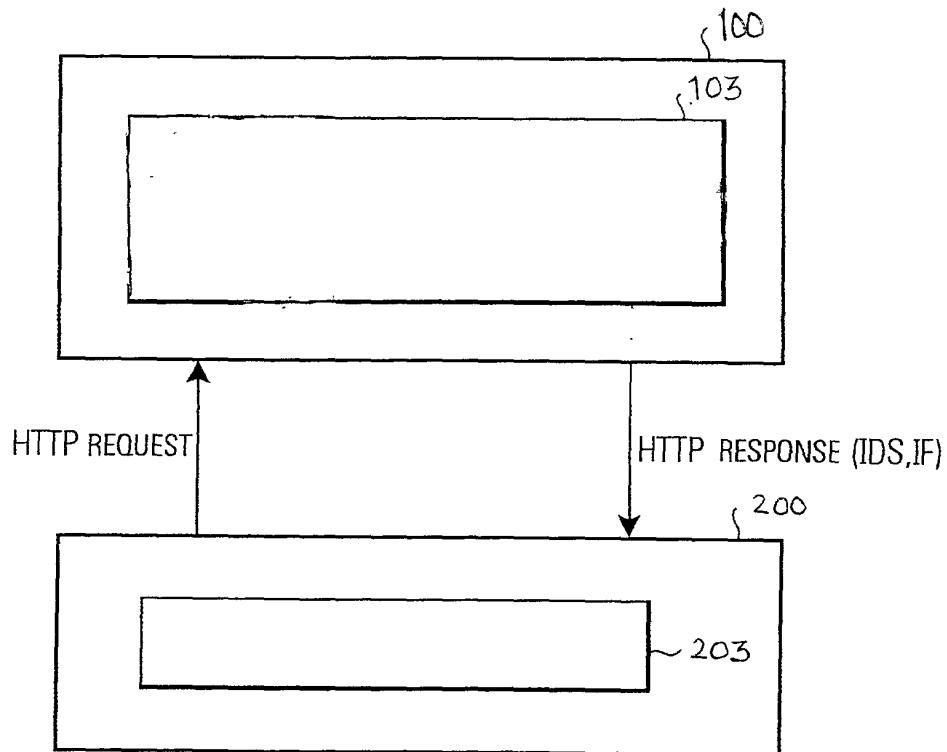
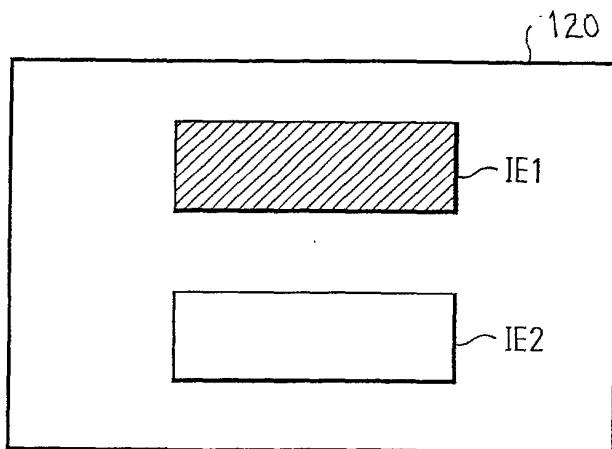
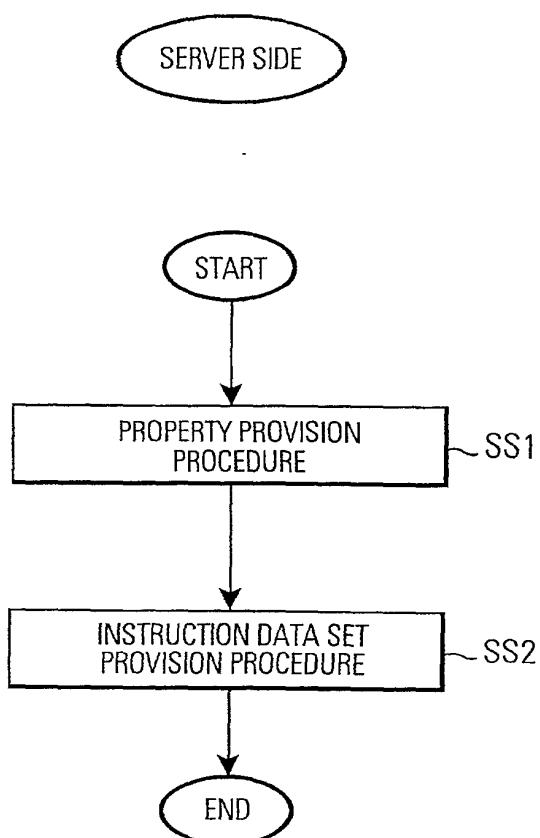


FIG.5c



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FIG.5b



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100

101
PROCESSOR

102

MEM

106

DB

103

104

107

110

150

140

200

205

IF

IEDS3

C03

C01

IEDS2

C02

IEDS1

INPUT

206

207

DSP

204

MEM

202

SE3

SE2

SE1

SF

140

200

205

204

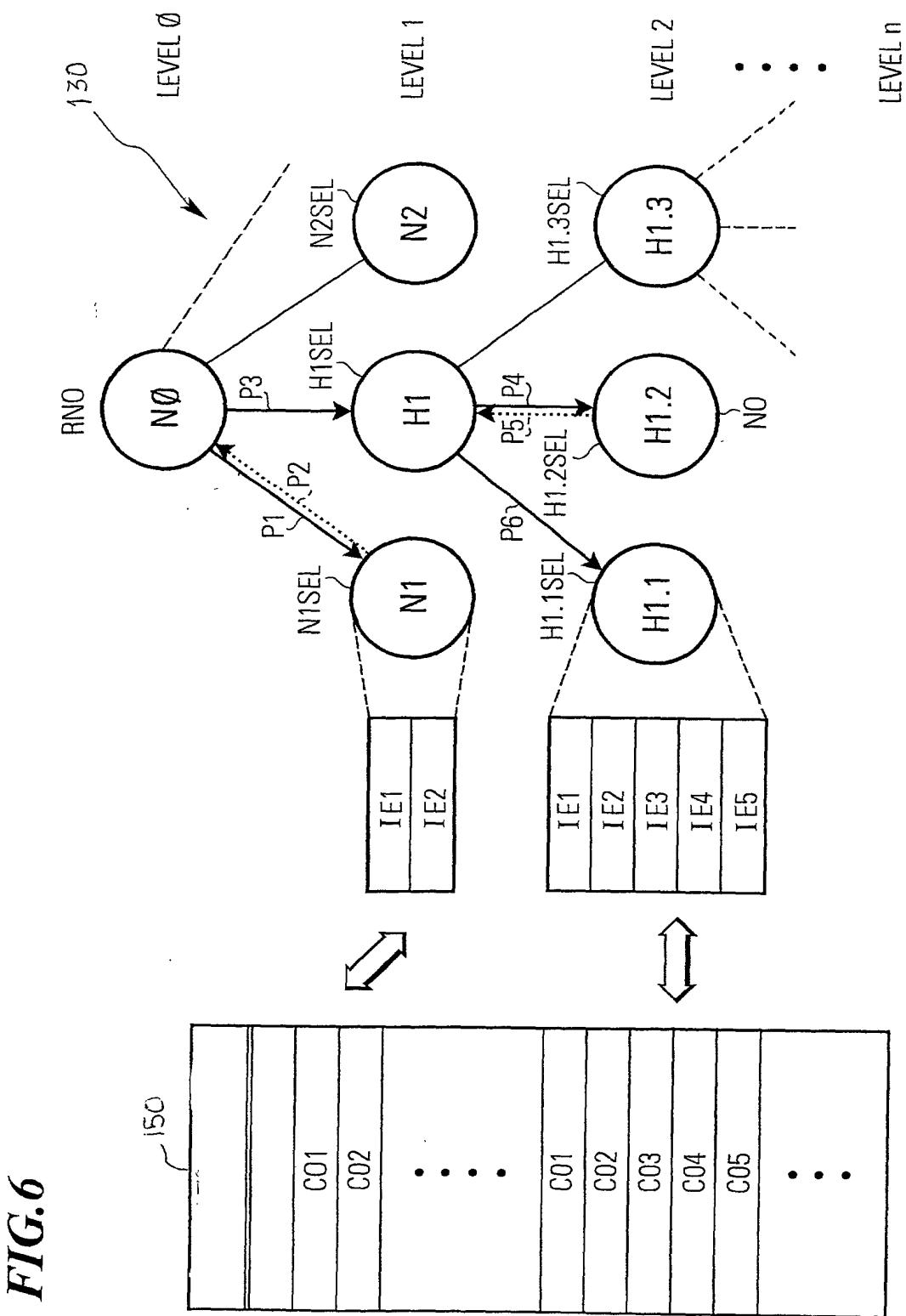
202

203

FIG. 5d

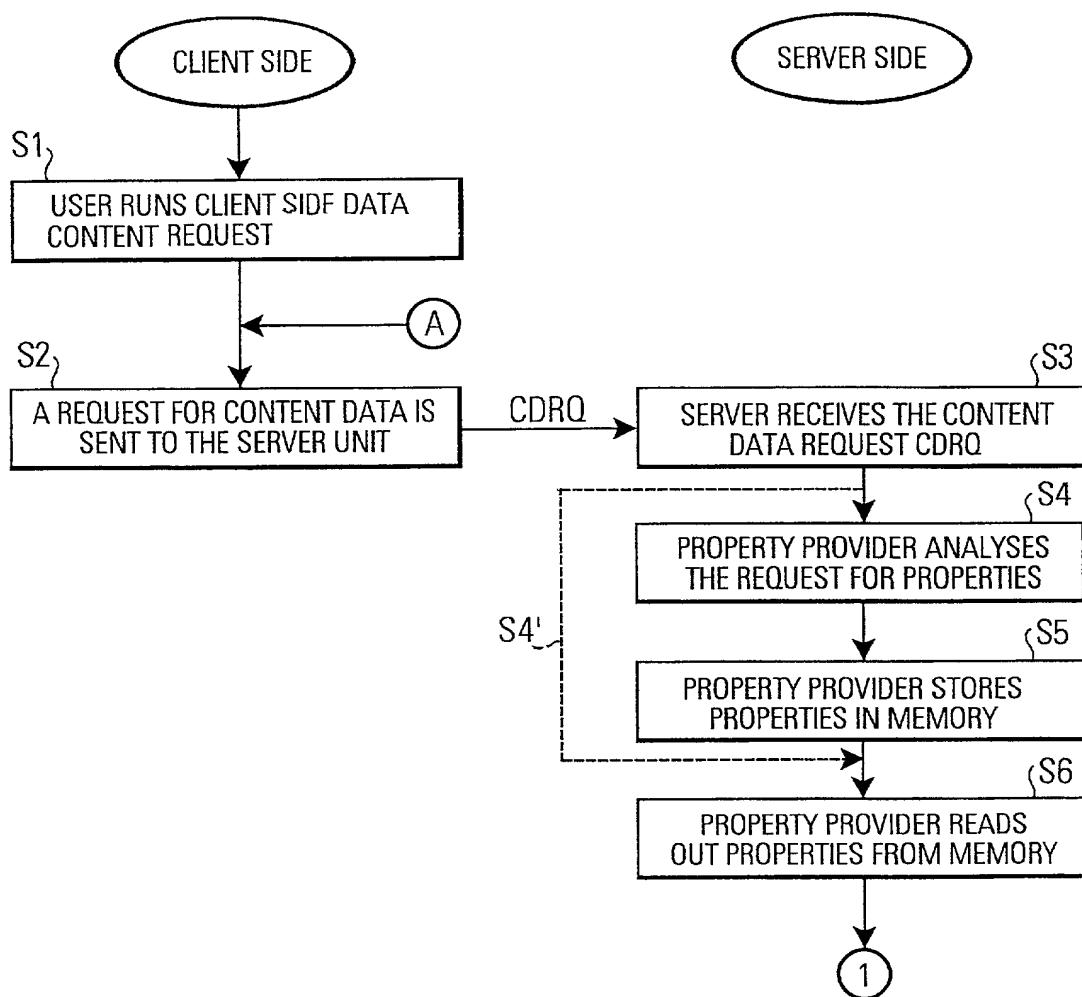
INSTRUCTION DATA SET

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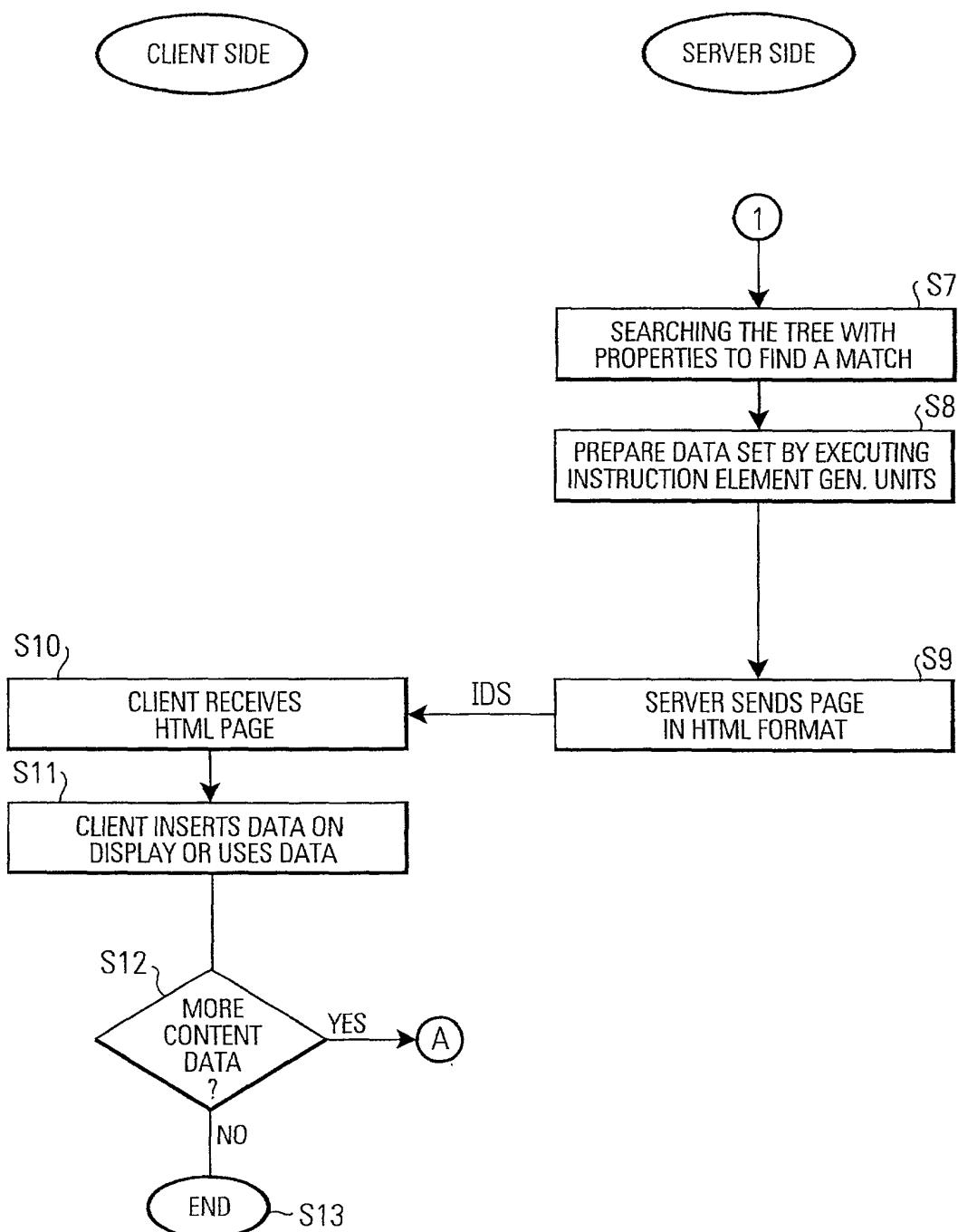
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FIG. 7a

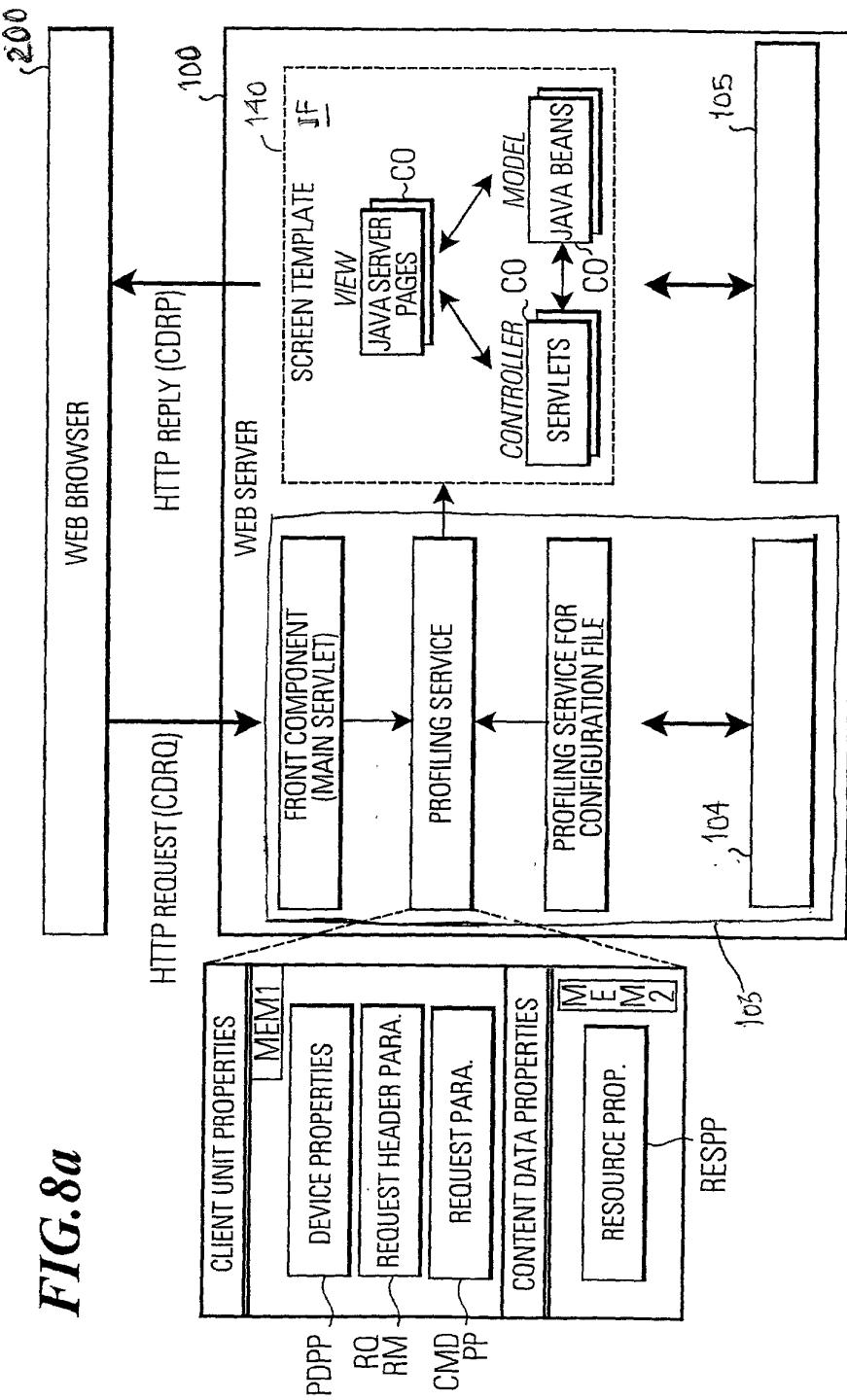


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FIG. 7b



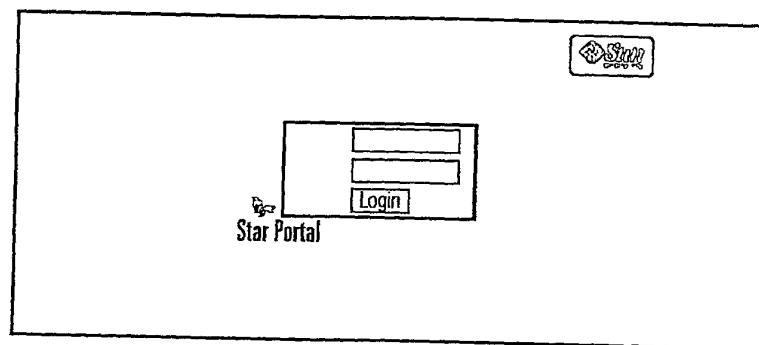
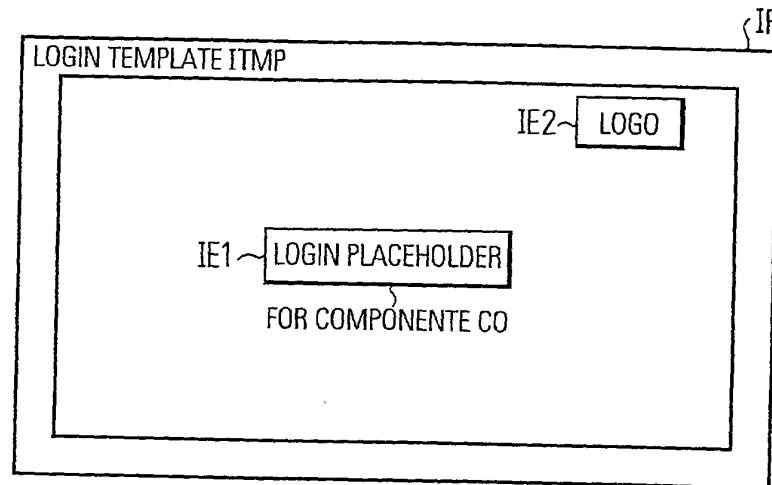
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Inventor Thorsten Laux, et al
Title METHOD AND APPARATUS FOR PROVIDING A
CLIENT BY A SERVER WITH AN INSTRUCTION DATA
SET IN A PREDETERMINED FORMAT IN RESPONSE TO
A CONTENT DATA REQUEST MESSAGE BY A CLIENT
Filing Date December 26, 2001
Attorney Docket No. 30014200-1020
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FIG.8b



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FIG.8c

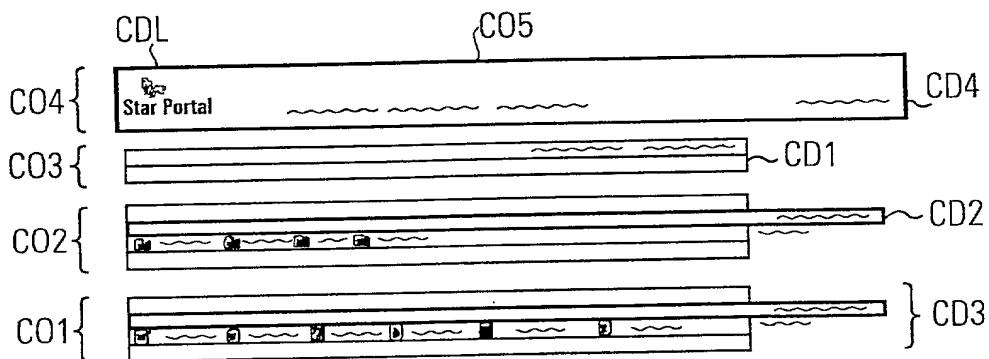
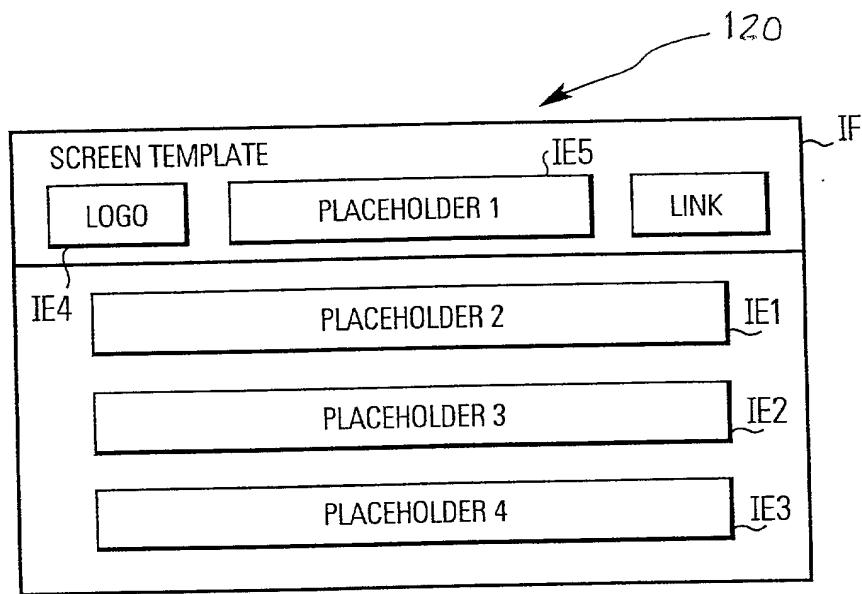


FIG.9

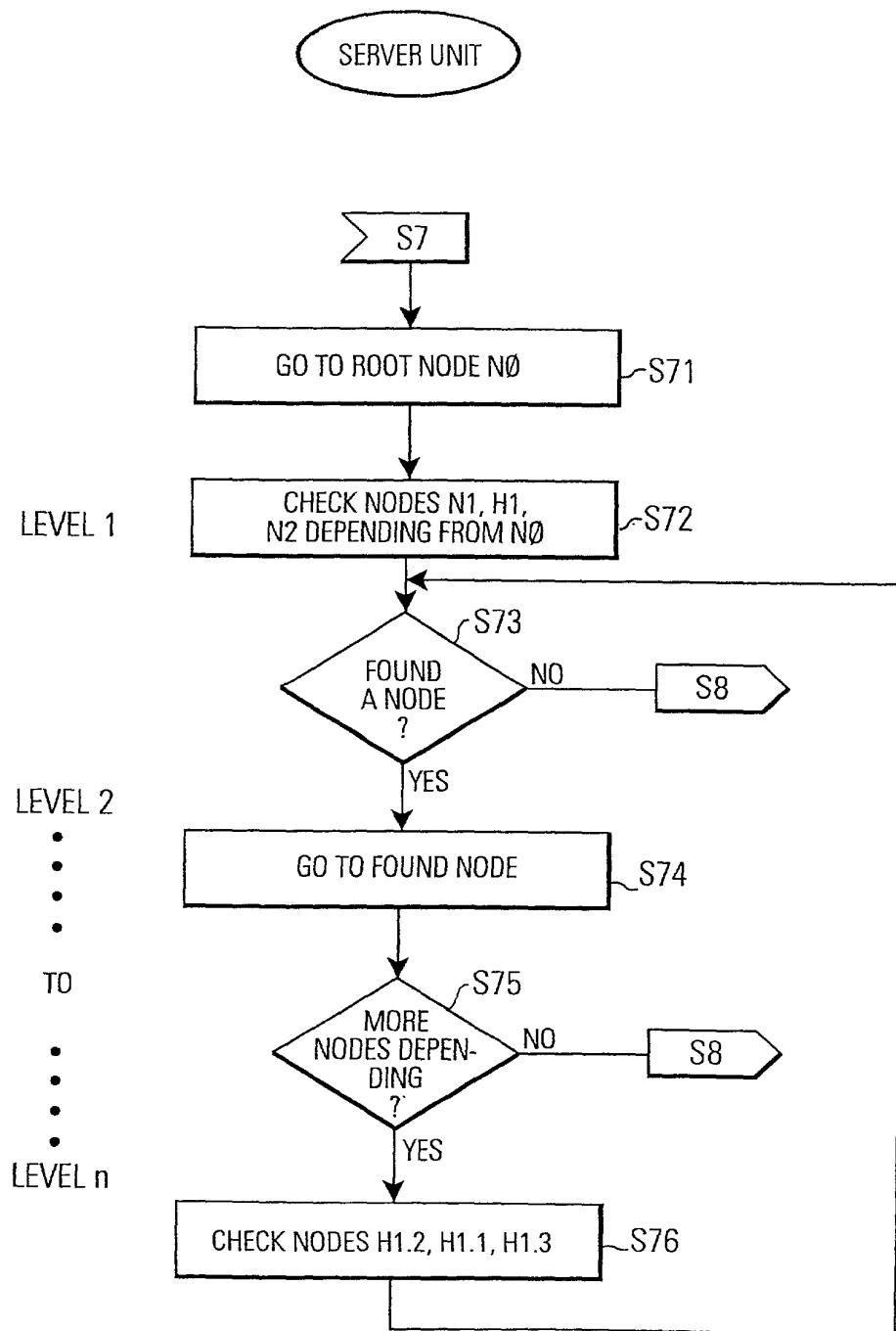


FIG. 10a

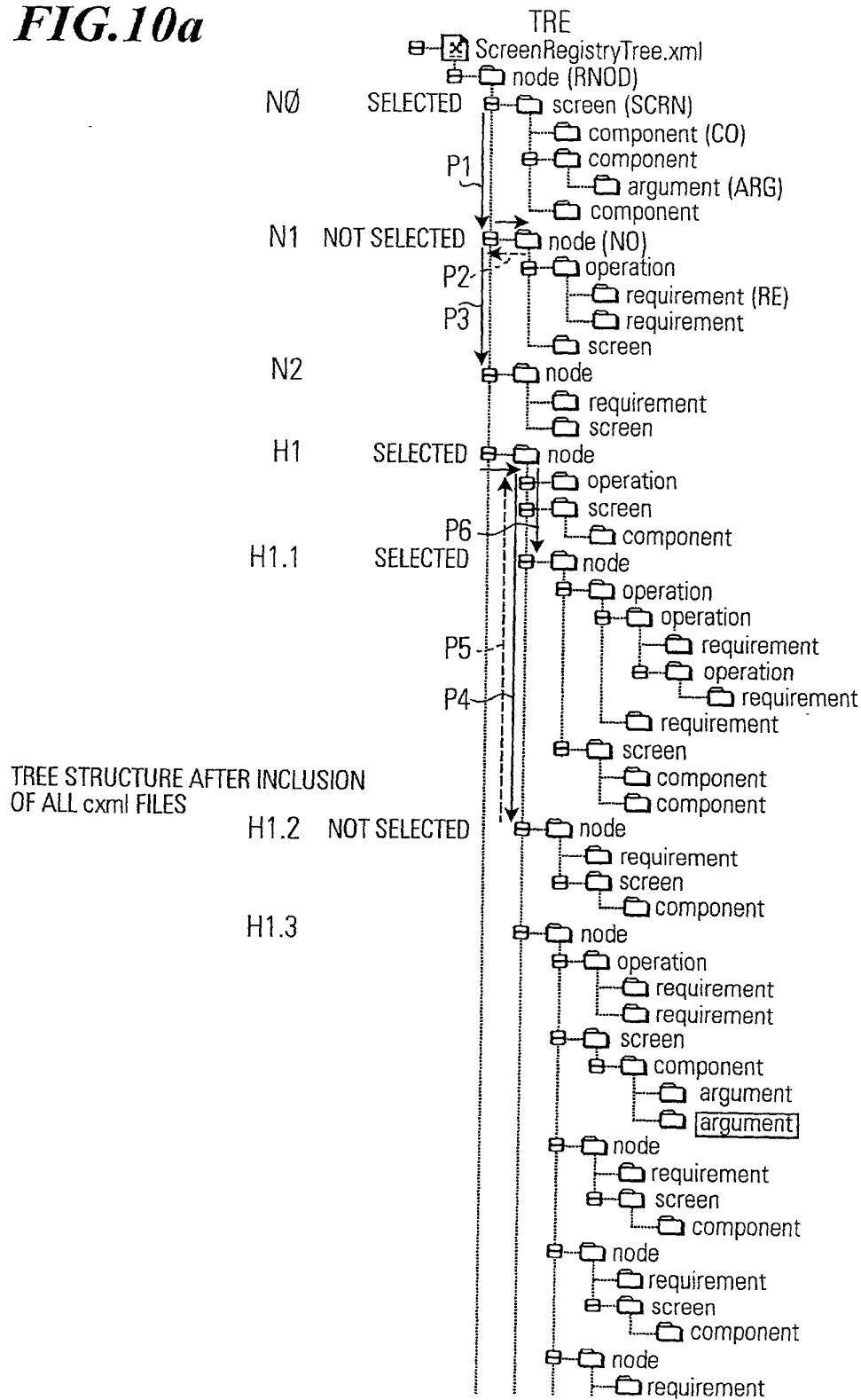


FIG.10b

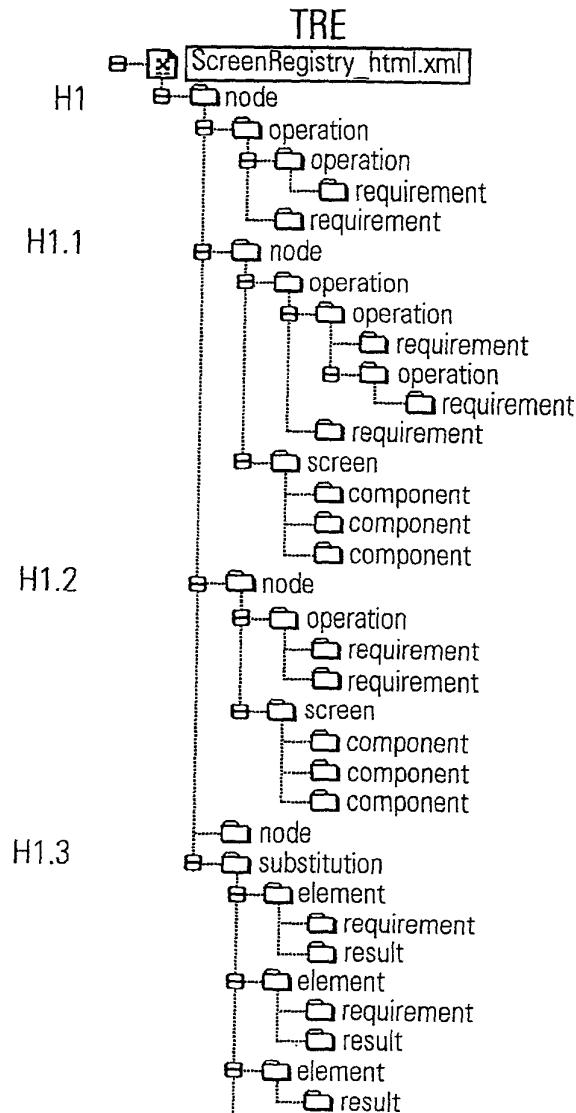
xml file for main nodes

MAIN

```
<?xml version="1.0" encoding= "ISO-8859-1"? >
<! -- screen definitions -->
- <node>
  - <!-- default screen -->
    - <screen template="/html/HTMLTemplate.jsp" class="default">
      N0   <component name="Title" value="www.mydomain.com" direct="true"/>
      - <component name="Background" value="/html/HTMLBackground.jsp"/>
        <argument name="picture" value="$BACKGROUND_PICTURE"/>
      </component>
      <component name="Error" value="/html/HTMLError.jsp"/>
    </screen>
    <!-- execute login -->
    - <node>
      - <operation type="and">
        <requirement type="requestParameter" name="cmd" RETYP
          N1   value="execute_login"/>
        <requirement type="executionEnvironment" name="loginBean"
          value="null"/>
      </operation>
      <screen template="/portal/login" class="login"/>
    </node>
    <!-- logout -->
    - <node>
      <requirement type="requestParameter" name="cmd" value="logout"/>
      <screen template= "/portal/logout" class="logout"/>
    N2 </node>
    <!-- include screen definition files for different devices supported
    -->
    <include file= "etc/screenregistries/portal/ScreenRegistry_wml.xml" />
    <include file= "etc/screenregistries/portal/ScreenRegistry_pqa.xml" />
    <include file= "etc/screenregistries/portal/ScreenRegistry_xul.xml" />
    <include file= "etc/screenregistries/portal/ScreenRegistry_html.xml" />
  </node>
```

FIG.10c

TREE VIEW FOR SOME HTML NODES OF THE SCREEN REGISTRY



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FIG.10d xml file of HTML nodes

HTML

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- Screen definitions for standard HTML devices ( MSIE,Netscape, ... )
-->
<node>
- <operation type="or">
- <operation type="not">
  <requirement type="ccpp" name="Browser.CCPPAccept.text/html"
  value="null"/>
</operation>
<requirement type="requestHeaderParameter" name="user-agent"
  value="Mozilla*"/>
</operation>
<!-- login page -->
<node>
- <operation type="or">
- <operation type="and">
  <requirement type="executionEnvironment" name="loginBean"
  value="null"/>
  <operation type="not">
    <requirement type="requestParameter" name="cmd"
    value="execute_login"/>
  </operation>
</operation>
<requirement type="requestParameter" name="page" value="login"/>
</operation>
- <screen ID="Login.Screen" template="/html/HTMLLoginTemplate.jsp"
  class="default">
  <component name="Title" value="HTMLLogin.title" direct="true"
  base="com.sun.star.portal.web.jsp.html"/>
  <component name="CurrentContent" value="/html/HTMLLogin.jsp"/>
  <component name="Error" value="/html/HTMLError.jsp"/>
</screen>
</node>
<!-- welcome page -->
<node>
- <operation type="or">
  <requirement type="executionEnvironment"
  name="UniversalContentBrokerContent" value="null"/>
  <requirement type="resourceProperty" name="PresentationURL"
  value="staroffice.private:factory/desktop"/>
</operation>
- <screen ID="Welcome.Screen" class="default">
  <component name="Title" value="HTMLWelcome.title" direct="true"
  base="com.sun.star.portal.web.jsp.html"/>
  <component name="Shortcuts" value="/html/HTMLShortcuts.jsp"/>
  <component name="CurrentContent"
  value="/html/HTMLWelcome.jsp"/>
</screen>
</node>
<node>
  <!-- more HTML nodes ... -->
</node>
- <substitution name="$BACKGROUND_PICTURE" >
- <element>
  <requirement type="userInformation" name="gender" value="f" />
  <result value="HTMLWomensBackground.gif"/>

```

file: //V:\pat\ScreenRegistry_html.xml

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FIG.10e

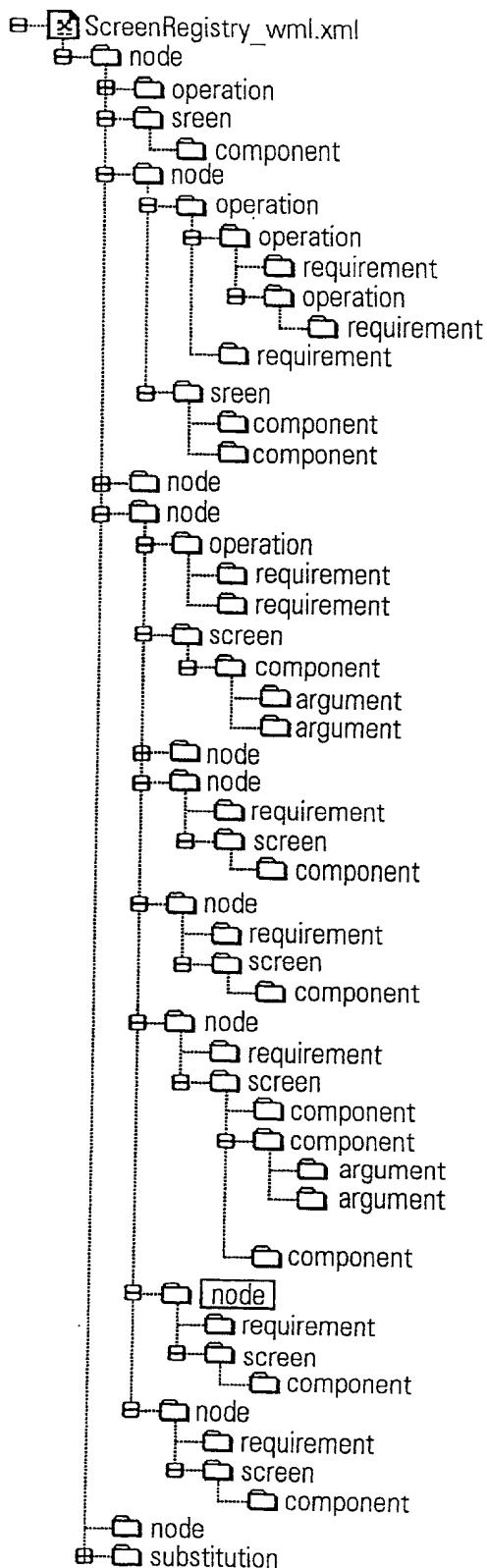
```
<element>                                HTML
- <element>
  <<requirement type = "userinformation" name = "gender" value = "m"/>
  <result value = "HTMLMensBackground.gif"/>
<element>
- <element>
  <result value = "HTMLdefaultBackground.gif"/>
</element>
</substitution>
</node>
<!-- End standard HTML description -->
```

file: /V:\pat\ScreenRegistry_html.xml

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FIG.10f

WML NODES



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WML

xml FILE OF WML NODES

FIG.10g

```
<?xml version="1.0" encoding= "ISO-8859-1"?>
<!-- Screen definitions for WAP (WML) devices -->
<node>
- <operation type="or">
- <operation type="not">
<requirement type="ccpp"
  name ="Browser.CCPPAccept.text/vnd.wap.wml" value="null">
</operation>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "Wapalizer*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "Nokia*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "R380*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "ERKO UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "ALAV UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "SPO1 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "T250 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "IM1K UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "MOT-CB/0.0.18 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value = "SH UP/4.0.10*"/>
</operation>
- <screen template="/wml/WMLTemplate.jsp" class="wml">
  <component name="Error" value="/wml/WMLError.jsp"/>
</screen>
<!-- login page -->
- <node>
- <operation type="or">
- <operation type="and">
<requirement type="executionEnvironment" name="loginBean"
  value = "null"/>
- <operation type="not" >
<requirement type="requestParameter" name="cmd"
  value = "execute_login"/>
</operation>
</operation>
<requirement type="requestParameter" name="page" value = "login"/>
</operation>
- <screen template= "/wml/WMLLoginTemplate.jsp" class = "login">
  <component name="Deck_1" value = "/wml/WMLLogin.jsp"/>
  <component name="Error" value = "/wml/WMLError.jsp"/>
</screen>
</node>
<!-- welcome page -->
- <node>
<requirement type = "executionEnvironment"
  name = "UniversalContentBrokerContent" value = "null"/>
- <screen class = "wml">
<component name = "Deck_1" value = "wml/WMLWelcome.jsp"/>
```

file: /V:\pat\ScreenRegistry_wml.xml

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FIG.10h

WML

```
</screen>
</node>
<!-- module explorer -->
- <node>
- <operation type="or">
  <requirement type="resourceProperty" name="protocol"
    value="file:"/>
  <requirement type="resourceProperty" name="protocol"
    value="ftp:"/>
</operation>
- <screen class="wml">
  - <component name="Deck_1" value="$WMLEXPLORER" >
    <argument name="explorerType" value="explorer"/>
    <argument name="title" value="WMLExplorer.documents"/>
  </component>
</screen>
- <node>
  <requirement type="requestParameter" name "cmd"
    value="viewPage"/>
- <screen class="wml">
  <component name="Action" value="/portal/viewpage"/>
- </screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="rename"/>
- <screen class="wml">
  <component name="Deck_1" value="WMLRename.jsp"/>
</screen>
</node>
- <node>
  <requirement type="requestParameter" name = "cmd" value = "delete" />
- <screen class="wml">
  <component name = "Action" value = "/portal/delete" />
</screen>
</node>
- <node>
  < requirement type="requestParameter" name="cmd"
    value="execute_mail"/>
- <screen class="wml">
  <component name="Action" value="/portal/mail" />
- <component name="Deck_1" value="$WMLEXPLORER" >
  <argument name="explorerType" value="explorer"/>
  <argument name="title" value="WMLExplorer.documents"/>
</component>
<component name="Error"
  value="/wml/WMLMailSendError.jsp"/>
</screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="execute_new_folder"/>
- <screen class="wml">
  <component name="Action" value="/portal/newFolder" />
</screen>
</node>
- <node>
```

file: //V:\pat\ScreenRegistry.wml.xml

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FIG.10i

WML

```
<requirement type="requestParameter" name="submodule" />
  value="menu"/>
- <screen template="/wml/WMLTemplate.jsp" class="contextmenu">
  <component name="Deck_1" value="/wml/WMLCommands.jsp"/>
</screen>
</node>
<node>
- <node>
  <!-- more WML nodes ... -->
</node>
- <substitution name="$WMLEXPLORER" >
  - <element>
    <requirement type="requestParameter" name="viewTypeExplorer"
      value="fileview"/>
    <result value="/wml/WMLFileView.jsp"/>
  </element>
  - <element>
    <result value="/wml/WMLFolderView.jsp" />
  </element>
</substitution>
</node>
<!-- End WAP (WML) description -->
```

file: //V:\pat\ScreenRegistry_wml.xml